

Ejercicio4sec3.5grossman3ed.

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determine el producto cruz $u.v$

$$u = i - 4j; v = -2k$$

```
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| Sage Version 3.4, Release Date: 2009-03-11 |  
| Type notebook() for the GUI, and license() for information. |  
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```

Sage Version 3.4, Release Date: 2009-03-11

```
sage] u=vector([1,-4,0])
```

Sage Version 3.4, Release Date: 2009-03-11

```
sage] v=vector([0,0,-2])
```

```
sage] u
```

$(1, -4, 0)$

```
sage] v
```

$(0, 0, -2)$

```
sage] u.cross_product(v)
```

$(8, 2, 0)$

```
sage]
```

el resultado final es $8i + 2j$

```
sage]
```